

Allen County HamNews

Fort Wayne Radio Club Fort Wayne DX Association Allen County Amateur Radio Technical Society

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2024 HAMFEST EDITION



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And much,
much more!

hamming it up with the editor

W9HT/VE9FWA



Another month is in the books—and November is here. It is becoming difficult to keep track of time... at times. Enough of the bad puns...

October 10 included some of the most brilliant displays of the **northern lights** that I have seen since I moved to Fort Wayne 20 years ago. One of the photos on the newsletter cover includes a brilliant backdrop for my tower (although HF propagation was rotten that night!).

I was saddened to hear that **Jim Sampiere, KD9NPL** became a silent key last month. He was a valued member of ACARTS and will be missed. May Jim rest in peace.

On a lighter note, I spent a long weekend over fall break in **Bermuda** operating as W9HT/VP9. This was my third trip to Bermuda to operate, but the previous two trips were before the pestilence came in 2020. I was able to make over 1100 contacts (including several with local hams in the Fort Wayne area!) that weekend and had an enjoyable time, but came home with a cold and slept on and off for about half a day. My gratitude to Ed, VP9GE for his hospitality.

The **Fort Wayne Hamfest** is just a few weeks away on November 16-17 at the Memorial Coliseum here in town. A lot of hard work has gone into planning this



year's Hamfest, including a full schedule of forums on a range of current topics. You can even attend a **Skywarn Spotter training** right at the Hamfest on Saturday afternoon.

Thank you to the ACARTS team for their efforts to host the Hamfest. I hope that you will be able to attend and enjoy the Hamfest!

The holiday season will be here very soon. **Thank you to the contributors** who make this monthly publication possible.

On behalf of ACARTS, FWRC, and FWDXA, I would like to wish you and your family a very **Happy Thanksgiving** holiday.

73,

*Josh, W9HT (soon to be active as
VE9FWA again)*

ALLEN COUNTY HAMNEWS

HamNews is a monthly, joint publication of the Fort Wayne Radio Club, the Allen County Amateur Radio Technical Society, and the Fort Wayne DX Association.

Articles are written by members and friends of the three clubs. New submissions for HamNews are always welcome. Please send your information to the editor within two days of the end of the month for inclusion in the next edition.

HamNews Editor

Josh Long, W9HT

drjoshlong (at) gmail.com

Skywarn training net begins winter sabbatical

By Jay Farlow, W9LW

Since May 29, Skywarn assistant net manager Jim Stephens, K9BAT has led a Skywarn training net every Wednesday evening on the ACARTS 146.88 MHz repeater. That training net began a winter sabbatical after its October 16 session.

The net accomplished Jim's goal of increasing awareness of the Skywarn program, prompted two net Skywarn net control station operators to volunteer and provided valuable on-air experience to all operators who participated, including net control station operators and others. The number of participants increased steadily throughout the 21 weeks that the net met.

Jim plans to resume the Skywarn training net next spring on a date to be determined.

Congratulations to Jim and all the operators who made this year's Skywarn training net a success.

Skywarn storm spotter training at Fort Wayne Hamfest

The National Weather Service (NWS) will present an in-person Skywarn storm spotter class during the 2024 Fort Wayne Hamfest, according to ACARTS president Dan Dahms, N9WNH.

Dustin Norman, who is warning coordination meteorologist and acting meteorologist in charge at the NWS Northern Indiana Weather Forecast Office will present the training from 2 p.m. to 4 p.m. Saturday, November 16, in the White Room of the Allen County War Memorial Coliseum Expo Center. The room has capacity for the first 70 people who arrive that afternoon.



NWS Skywarn Spotter Certification Training is available at the Fort Wayne Hamfest this year on Saturday afternoon.

Check the forum schedule for complete information.

LRBN October Update

We had another great month on the Little Red Barn Net (LRBN) which meets on Monday thru Friday at 9:00am on 3.820 MHz LSB. We have about 10 to 15 check-ins per day (80m has been bad), with self-generated topics each day by the check-ins.

Also, we have a lunch every two weeks alternating from north Fort Wayne to south Fort Wayne. We usually have 10 to 15 participants at each lunch.

We had several lunches this month on 10/10 at Salvatori's North and 10/24 at Cracker Barrel in Auburn. It's always a great time to eat and socialize with friends.

The next upcoming lunch dates are 11/7, 11/21, and 12/5 at 11:30am on each date. Please join us!

If you want to be on the LRBN email list, let me know at gmrepair1@aol.com, or message me at 260-437-4676 with your email and call sign or name.

Net control operators are also follows: Monday KU8T Tom, Tuesday K9FW Al, Wednesday KD9HAV Norm, Thursday KE9IWX Jim, and Friday WB9TYJ Don. Friday includes Amateur Radio New-line after the net.

We have a web page at <https://gmrepair1.wixsite.com/mobile> that works with mobile and desktop browsers. The page includes lunch information (times & dates), pictures of previous lunches, and other information.

Also we have groups.io/g/lrbn, but you will need to sign up. This is where we vote for the next lunch. Let me know if

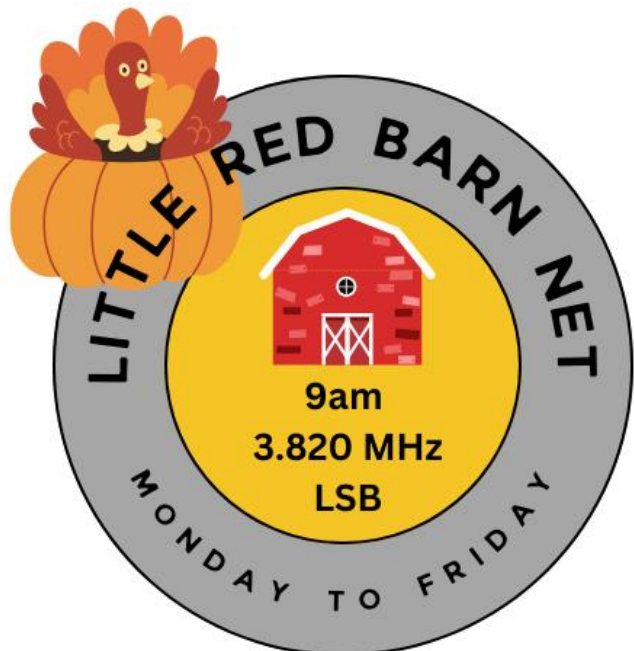


you need help.

Also, our net controls use Netlogger. You may download the program at the Download Center (netlogger.org). Also, for smartphones, there is Net Scraper. On the Android go to Play Store, and on iPhone, go to App Store and download this app.

73,

KU8T Tom



52nd FORT WAYNE HAMFEST & Computer Expo

Sponsored by Allen County Amateur Radio Technical Society



Carl Luetzelschwab K9LA
ARRL Central Division Director

Brent Walls N9BA
ARRL Central Division Vice Director

Bob Burns AK9R
ARRL Indiana Section Manager

Mike Alley W9MSK
ARRL Indiana Section Emergency
Coordinator

Ham Radio License Testing All Classes (\$14)
9 AM till 12 PM Saturday

WAS & DXCC Card Checking and CQ
Awards

Youth Lounge (under 12 accompanied by adult)

New & Used Ham Equipment Dealers
Main & Hourly Door Prizes

2 Rooms of Special Interest Forums All Day
Saturday

Talk-in Radio Frequency 146.880 (-) PL 141.3

Tables: \$30 Regular, \$50 Premium, \$35 Electricity
Drive Directly to Your Table for Setup

November
16 & 17
2024

SAT 9 AM to 4 PM
SUN 9 AM to 2 PM

**Admission: \$8 Sat &
Sun**
\$4 Sun only
Children under 12 free
(with adult)

Allen County
War Memorial Coliseum
4000 Parnell Ave
Fort Wayne, IN
73,000 sq. ft. all indoors
(Coliseum Parking \$8 per
vehicle)

Get the latest information at
www.fortwaynehamfest.com
www.facebook.com/FTWAYNEHAMFEST/

Hamfest General Questions:
Email: FM@acarts.com
Table Questions:
tables@fortwaynehamfest.com
Mail: PO Box 10342, Fort Wayne,
IN 46851
Phone: (260) 579-2196

2024 HAMFEST FORUMS

<i>FORUM</i>	<i>Time</i>	<i>Room</i>
VE TEST SESSION	9:00 AM - 11:45 AM	White Room (Upstairs)
YOUTH ACTIVITIES	10:00 AM - 1:45 PM	Archer Room A (Expo II)
ARRL FORUM	10:00 AM - 10:45 AM	Archer Room B (Expo II)
PARKS ON THE AIR (POTA)	11:00 AM - 11:45 AM	Archer Room B (Expo II)
DC POWER	12:00 PM - 12:45 PM	White Room (Upstairs)
STEALTHY HF OPERATION	12:00 PM - 12:45 PM	Archer Room B (Expo II)
LITHIUM BATTERIES & HAM RADIO	1:00 PM - 1:45 PM	White Room (Upstairs)
INDIANA REPEATER COUNCIL MEETING	1:00 PM - 1:45 PM	Archer Room B (Expo II)
NWS SKYWARN BASIC SPOT- TER TRAINING	2:00 PM - 4:00 PM	White Room (Upstairs)
EMCOMM	2:00 PM - 2:45 PM	Archer Room A (Expo II)
YOUNG LADIES RADIO LEAGUE	2:00 PM - 2:45 PM	Archer Room B (Expo II)
OPERATING FLDIGI & FLAMP	3:00 PM - 3:45 PM	Archer Room A (Expo II)
SOLAR CYCLE 25	3:00 PM - 3:45 PM	Archer Room B (Expo II)

NOTE THAT THERE ARE NO FORUMS ON SUNDAY.

HAMFEST
or bust!

Hamsplatter

Fort Wayne Radio Club P.O. Box 15127, Fort Wayne, IN



Welcome to November, the start of the Christmas chaos. We have almost made it through another year. Just two more months, but there are plenty to keep us busy during those months.

November is the month for Fort Wayne Hamfest. This will be at the Allen County War Memorial Coliseum. It is a great way to connect with the local amateur radio community. FWRC will have a booth setup. You can renew your membership, which the club has voted to reduce to \$20.

For the club meeting, we will be having a foxhunting 101 meeting. We will build yagi antennas, go over the basics of foxhunting, and head to the parking lot for a fox-hunt. This is designed for all skill ranges. Don't be afraid to show up and see what it is about with some skilled hunters.

For contesting, we have the November Sweepstakes for

CW and phone. This is always a busy contest each year. If you wish to try a more relaxed contest, SKCC Weekend Sprintathon is on November 9.

For business, the club has seen the efforts being utilized by amateur radio operators in the communities around the hurricane affected regions. The club has voted to make a donation to support the hurricane relief efforts. This donation will go a long way to supporting those who have lost everything in the storms.

Finally, this is a good time to just enjoy getting on the air. The weather isn't the greatest, which moved many of us indoors. Answer a call on the repeaters, chat with someone calling CQ, just have a good time. Email me at kd9nrt@gmail.com.

While I can't respond to every email, I do read them all, and your feedback is critical in driving club decisions.

Adam, KD9NRT

FWRC Officers 2024

President

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FWRC 2025 DUES INITIATIVE DURING FW HAMFEST

The Fort Wayne Radio Club is again conducting a promotion during the Fort Wayne Hamfest to encourage club members and newbies to submit their dues for the 2025 club year. The club will raffle off a Tiny-SA portable spectrum analyzer which would be a useful addition to any ham's collection of tools. See the following link for details on this device: <https://tinysa.org/wiki/pmwiki.php?n=Main.Buying>



Anyone who submits their dues for 2025 during the Hamfest will receive one raffle ticket for the Tiny-SA, and persons will be able to purchase additional raffle tickets for \$1.00 each. (Persons who have already pre-paid their 2025 dues will also receive a raffle ticket as well as persons who will not be attending the Hamfest in person but submit their dues by mail or in person to a FWRC Board member before the end of the Hamfest).

The promotion / raffle will conclude at the end of the Hamfest on Sunday afternoon and anyone submitting their dues up to that point will be a participant of the raffle. Following the end of the Hamfest the winning raffle ticket will be drawn. You don't need to be present to be a winner.

As a reminder, the FWRC dues have been reduced for 2025 as follows:

Regular membership	\$20.00/year
Family membership	\$25.00/year
Associate membership	\$15.00/year
Student membership	\$5.00/year

73,

Al Burke, WB9SSE

THE FOXHUNT CHRONICLES WILL RETURN...

Stay tuned to
upcoming editions of
the Allen County
HamNews for more
information and
foxhunt dates in 2025!

State of the Arts

Allen County Amateur Radio Technical Society

P.O. Box 10342, Fort Wayne, IN



**From the
ACARTS
President**

With ACARTS activities, meetings, business along with the Hamfest and Jim Sampiere KD9NPL's Estate has taxed us heavily just weeks before the Hamfest itself.

Hamfest 2024

I'm not quite sure that most are aware of the amount of work that goes into the Hamfest before, during and after the event itself. And rightfully so, without you having the exposure of managing each division of the Hamfest.

Currently there are around 90 staff members handling around a little less than 180 positions. So before the Hamfest I want to publicly thank all of you for stepping forward. And to the attendees and vendors that will be attending thank you as well!

Here is a few sites of interest in regards to the Hamfest.

Fort Wayne Hamfest Page:

<http://fortwaynehamfest.com/>

Hamfest Forums Page with more details:

<https://acarts.com/forums.htm>

VE session information"

<https://hamstudy.org/>

[ses-
sions/66ac416d7a2b0c3a8a356d
26/1](https://hamstudy.org/sessions/66ac416d7a2b0c3a8a356d26/1)

Allen Co. War Memorial Coliseum Page:

[https://
www.memorialcoliseum.com/](https://www.memorialcoliseum.com/)

ACARTS Website

<http://www.acarts.com/>

By the way, we ran out of time here lately, but don't worry we have our ACARTS IT/Web staff working towards a new Website after the Hamfest. So enjoy its historical value for now!

ACARTS W9INX Packet System



Finally, after months of getting put on the back burner because of everything else butting in line. The ACARTS Packet System is going back on the air soon. We have all the equipment ready just need to schedule the time with the Site IT person for access. It will start out with a burn in period just as a Packet Mailbox, Node and Digipeater before we add Winlink capabilities etc.



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W9INX Trustee

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ACARTS & American Red Cross

Five ACARTS members with several being ARES members attended and completed the day long in person American Red Cross Disaster Cycle Services Overview/ Disaster Action Team (DAT) Training recently on Friday October 25th at the NE Chapter American Red Cross in Fort Wayne. The Chapter served us breakfast and lunch which was most appreciated!

Those attending and receiving training were:

Dan Dahms N9WNH
Stuart Hall KD9LFW
Wili Tucker-Hall KD9ZFP
John Nash W9NEG
Richard Reed N9AKZ

This further continues ACARTS's commitment to the Red Cross and the community. There were seven other non-amateur radio individuals from various communities that attended the training also.

The Chapter was impressed that our number of amateur radio attendees almost topped the number of others attending. I know that were two others that were interested but were not able to attend because of work. This training can be accomplished online as well.

The NE Chapter of the American Red Cross Indiana Region has grown recently and has increased from 17 counties to 24 counties in the coverage area and are serving over 1.3 million people.

In Indiana: Adams, Allen, Blackford, Dekalb, Grant, Howard, Huntington, Jay, Kosciusko, LaGrange, Miami, Noble, Steuben, Tipton, Wabash, Wells and Whitley.

In Ohio: Allen, Auglaize, Defiance, Mercer, Paulding, Van Wert and Williams.

To find out more about volunteer opportunities, visit <https://www.redcross.org> or call the Amer-

ican Red Cross Indiana NE Chapter at 260-484-9336.

See you at the Hamfest!

73,

Dan, N9WNH



Upcoming ACARTS Events

Date	Time	Event	Location
Tuesday 11/12/24	7:00 PM - 9:00 PM	ACARTS Board Meeting	MS Teams (Online)
Friday 11/15/24	12:00 PM - 9:00 PM	Hamfest Setup	ACWMC
Saturday 11/16/24	6:00 AM - 9:00 AM	Hamfest Setup	ACWMC
Saturday 11/16/24	9:00 AM - 4:00 PM	Hamfest Hours	ACWMC
Sunday 11/17/24	8:00 AM - 9:00 AM	Hamfest Setup	ACWMC
Sunday 11/17/24	9:00 AM - 2:00 PM	Hamfest Hours	ACWMC
Sunday 11/17/24	2:00 PM - ?	Hamfest Teardown	ACWMC
Tuesday 11/19/24	7:00 PM - 9:00 PM	ACARTS General Meeting - Nominations	Red Cross & MS Teams
Tuesday 12/10/24	7:00 PM - 9:00 PM	ACARTS Board Meeting	MS Teams (Online)
Tuesday 12/17/24	6:00 PM - ?	ACARTS Christmas Dinner - Nominations	Location TBD
Tuesday 1/7/25	7:00 PM - 9:00 PM	ACARTS Board Meeting	MSTeams (Online)
Tuesday 1/14/25	7:00 PM - 9:00 PM	ACARTS General Meeting - Final Nominations / Elections	Red Cross 1212 E. California Rd. Fort Wayne



THE OCTOBER 2024 STEW PERRY TOPBAND DISTANCE CHALLENGE

BY CARL LUTZELSCHWAB, K9LA

About a month ago, I decided to do some repair work on my 160m inverted-vee before the October Stew Perry contest.

Thanks to a pulley under a high limb of a big oak tree, the apex of the inverted-vee is at 55 feet. And with the pulley, it's easy to raise and lower the inverted-vee.

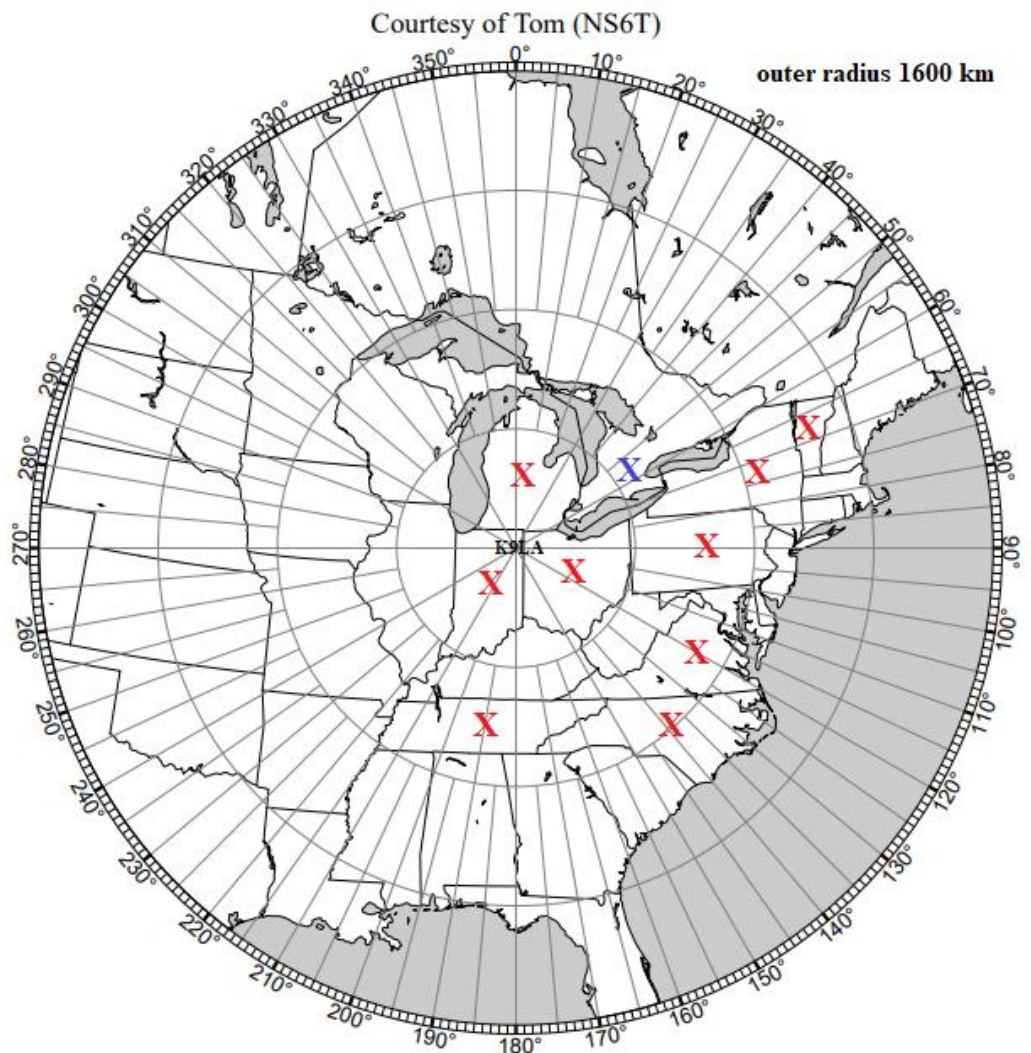
This antenna is not as good for DXing as my old inverted-L with elevated radials, but with 800 Watts I can work most anything I can hear on it. I may not be first (or twentieth) in the pileup, but usually I'll work the DX station.

While inspecting the inverted-vee, I noticed that the coax going up to the inverted-vee had some obvious problems. There were small cuts in the coax jacket and when I stripped back the jacket, the braid was not a shiny copper color – it was blackish, indicating water intrusion.

Replacing the old coax with new coax was easy. I then figured I should install new rope to haul up the inverted-vee center insulator. The old rope had some fraying (likely from squirrels). While replacing the old rope, I lost hold of the new rope and now I

have a pulley at 55 feet with no rope going through it.

I could hire a tree guy to walk up the tree and put new rope through the pulley, which would allow me to put the 160m inverted-vee back up. But then I started thinking of an alternate short-term 160m antenna for the October Stew Perry. My 40m inverted is at 45 feet on the east tower. The SWR of the 40m antenna itself would be extremely high when using it on 160m.



The SWR would be somewhat lower in the shack due to the loss in the 175 feet of RG-8 coax going from the shack to the 40m inverted-vee. The SWR measured around 15:1 in the shack per my Bird wattmeter and surprisingly, the tuner in my Ten-Tec OMNI 7 didn't have a problem with that SWR. Thus I was ready for the October Stew Perry contest – but with a compromise antenna. I did realize that I had two negative issues – I'd be a QRP entry due to the SWR and the October Stew Perry is one of the three mini-Stew Perry's with nowhere near the participation of the main December Stew Perry.

How did I do with 100 Watts to a 40m inverted-vee? I think I can truthfully say that my results were as expected from a station with a high SWR antenna. I worked 16 stations Friday evening and early Saturday morning. I snagged 9 states and Canada (Ontario). My farthest QSO was to Vermont at 1027 km (642 miles). Note on the map that I didn't work anyone to the west. I did hear K7RAT very weak in Oregon early Saturday morning, but I couldn't work him.

If a station was S6 or greater on my OMNI 7 S-meter, I had a good chance of working that station. Unfortu-

nately, there weren't many stations with a signal strength at or greater than S6. It's now obvious to me that I need to either resurrect my 160m inverted-vee or implement another good antenna for 160m because of the forthcoming ARRL 160m Contest (December 6-8) and the main Stew Perry (December 28). The bottom line is that I've made the decision to have fun with 800 Watts and a good antenna.

10 Meters is HOT!!!!

Its currently 1:30 in the afternoon on Thursday and here's what I'm hearing:

- 28.457 EA2ELS Spain
- 28.455 OH6RM Finland
- 28.449 EA5Y Spain
- 28.430 EA1FDJ Spain
- 28.407 EA5IPM Spain
- 28.395 G5MCL England
- 28.390 IK4GRO Italy
- 28.367 G4XNR England
- 28.353 F4FPG France
- 28.355 MM0TFU Scotland
- 28.342 DL6RA Germany
- 28.334 IK4IDF Italy
- 28.310 PA3HLE Netherlands

There are many more on CW and FT8. I just worked



PA0FRX from the Netherlands, SP6IXF from Poland, and ZS6NL from South Africa on FT8 using 5 watts!! If you're wanting to work some new countries with a meager antenna, 10 is waiting for you! (Just a quick note: last weekend was the CQ World Wide SSB contest. I had over 700 contacts on 10 meters from 117 different countries!) CW ops: CQ WorldWide CW contest is the last full weekend of November on the 23rd and 24th. You don't have to be "in" the contest to participate. The contest exchange is signal report and CQ zone. We're in zone 4.



Get on the air and make some contacts! FUN!!!

73 de N8KR

Tuning Up

WITH AC9EZ

Another Update on the PFW Amateur Radio Station

Hello my fellow radio bugs! Welcome to the month of Thanksgiving and the Fort Wayne Hamfest. November is one of my favorite months for two reasons. First, we have Thanksgiving (who doesn't like turkey, stuffing, pumpkin pie, and a season of gratitude all thrown together!). Second, the Fort Wayne Hamfest is right 'round the corner.

The Fort Wayne Hamfest has always held a special place in my memory, because this was the first hamfest I ever came to as a ham radio operator (way back in 2014). Ever since then, I have tried to attend most every Fort Wayne Hamfest, both to relive old memories and to make new memories. This year will be no different, and if it is at all possible, I will enjoy connecting with you all at the hamfest, putting faces to callsigns, and sharing the excitement a ham gathering always brings!

Now for the main purpose of this article – an update on the PFW amateur radio station. As many of you know, I have spent the past year working with a mentoring professor to bring amateur radio back to the

PFW campus. This process actually began several years earlier when I had first arrived on campus. However, it wasn't until October of 2023 that I was able to begin taking preliminary steps to see if a ham radio station was possible. Thanks to the wonderful support of my mentoring professor, the school of engineering, and the PFW Honors Program, we are almost at our goal of installing the station.

Unfortunately, the task of installing the station is not as simple as could be hoped. Due to liability concerns, only particular individuals are allowed on the roof of the engineering building. This means that, to install the antennas for the station on the roof of the engineering building (where the ham radio station will be located), requires the services either of an individual from the on-campus staff or a third-party contractor. An on-campus staff member is apparently not available to assist with the station installation, requiring us to seek an alternate third-party to undertake the installation. Although a third-party contractor is available,

the cost to install the station is, quite literally, nearly equal to the cost of the station itself (including transceiver, power supply, coax cable, etc.) Ergo, we have been at an impasse for several weeks as various routes are tried to move the station installation forward.

What to do? As of yesterday, I believe there is a path forward that would both allow the station to be installed by the end of the year and would ensure the minimal cost is needed for installation. If this proposal proves acceptable, I believe that we could have the makings of one of the most unique amateur radio installations out of any university within the United States.

As of November 1, I am awaiting a response for this new proposal for the station. If accepted, I will begin the process to move the project forward in our new direction, with a full report occurring here in the December issue of the HamNews.

We'll see you in December!

73 es good dx de Jim ac9ez

Local



News

October 2024

Operating activities during the month of September follow.

For the Weekend Sprintathon (WES) on October 12-13, the following local operators participated. QSO count is shown.

N8KR	190
W9HT/VP9	105 (unpublished)
KU8T	71
WA9BBN	51
W9GOO	46
AC9XS	43
WB9EAO	28
KA9GKE	15
N9DGL	5

For the Two Hour Straight Key Sprint (SKS) on Tuesday evening, October 22nd (8-10 PM local), the following local operators participated. QSO count is shown.

K9FW	57
WA9BBN	24
AC9XS	20
WG9K	20
W9GOO	17
KA9GKE	4

I hope that you can participate during the November Weekend Sprintathon (November 9-10) and the 2 hour Sprint (October 27 at 0000z).

See you at the Fort Wayne Hamfest!

73,

Ed, WA9BBN

SKCC Hamfest Dinner

Saturday, Nov. 16 at 5pm

Hall's Factory

Make your reservations NOW for this special gathering of the Straight Key Century Club following the Saturday hamfest 4pm closing. We have a very special program planned to benefit our SKCC members! Contact Ken – N8KR for more details and for reservations, email N8KR (at) hotmail.com or 146.91 – do it NOW!

Repeater Etiquette

Editor's note: This information is being included at the request of a local repeater trustee as a public service to the ham community.

The following information is a simple guide to courteous operation on repeaters. If you operate using these simple guidelines, you will make it more enjoyable for everyone operating on repeaters, and you will also set a good example for others. It never hurts to review the guidelines (and new hams may not be familiar with these guidelines) to make sure you are being a responsible amateur radio operator. Remember, repeaters are a public service, and general courtesy is expected of all amateur radio operators.

Take the time to listen to a repeater before you talk.

Transmit your call sign when you first come on the air. Make sure you ID once every 10 minutes, but there is no need to identify too often. (47CFR § 97.119.a)

Do not inject a comment into a conversation without saying your call sign. Part 97 of the Code of Federal Regulations, which governs our operations as amateur radio operators, requires that you identify with your callsign. (47 CFR § 97.119.a) Transmitting comments without identifying yourself is prohibited. Interrupting is no more polite on the radio than in the real

world

Do not monopolize the repeater. Simplex may be more appropriate for lengthy conversations. Keep in mind that repeaters are a shared resource and are to be available to a large community of users. A good operating practice is to use simplex for long conversations (rag chewing) if possible.

Our repeaters normally have a 3 minute "timeout" setting. The 3-minute length is meant as a maximum length, not a suggested length. It is considered good etiquette to keep your transmission length shorter than this.

Some topics are like land mines – Religion, Politics, Sex, etc. Do not discuss these subjects over the air! It can be more interesting than discussing what you ate for lunch last Wednesday, or the weather conditions you experienced two days ago, or how bad your bunions are troubling you, but "land mine" conversations can sometimes descend into a shouting match and can cause people to become upset (even those listening and not part of the conversation).

Do not belittle, berate, defame or speak ill of others.... period. This includes individuals, groups, nations, aspect of the hobby, etc. Using words such as idiot, stupid, hate monger, etc. in reference to any person, entity or group should not be tolerated.

Even 'mild' obscenities are not

good operating practice. This includes suggestive phrases, and suggestive phonetics. (47 CFR §97.113.a.4).

Give a pause before keying the mic and speaking. Don't start speaking as you key the mic. Repeaters have a short delay before transmitting. If you start speaking too soon, your first few words may not be heard. Make sure you have finished speaking before you unkey the mic.

Pause periodically to see if anyone else would either like to join the conversation or use the repeater for a quick call that is not part of the ongoing conversation.

When identifying, please say your call sign slowly and clearly. Call signs that are rattled off too fast can make the call sign totally unintelligible.

Don't forget that the FCC prohibits the transmission or retransmission of music (and almost anything else that is received over the airwaves; for specifics, see (47 CFR § 97.113.a.4). If you have a radio turned on (this is especially common for many mobile stations), make sure that it's turned down before you transmit.

When using "comment" or "break" to be recognized and you are acknowledged by net control or the folks using the frequency, then be sure to identify with your call sign.



From the FCC regulations**§97.119 Station identification.**

(a) Each amateur station, except a space station or telecommand station, must transmit its assigned call sign on its transmitting channel at the end of each communication, and at least every 10 minutes during a communication, for the purpose of clearly making the source of the transmissions from the station known to those receiving the transmissions. No station may transmit unidentified communications or signals, or transmit as the station call sign, any call sign not authorized to the station.

(b) The call sign must be transmitted with an emission authorized for the transmitting channel in one of the following ways:

(1) By a CW emission. When keyed by an automatic device used only for identification, the speed must not exceed 20 words per minute;

(2) By a phone emission in the English language. Use of a phonetic alphabet as an aid for correct station identification is encouraged;

(3) By a RTTY emission using a specified digital code when all or part of the communications are transmitted by a RTTY or data emission;

(4) By an image emission conforming to the applicable transmission standards, either color or monochrome, of §73.682(a) of the FCC Rules when all or part of the communications are transmitted in the same image emission

(c) One or more indicators may be included with the call sign. Each indicator must be separated from the call sign by the slant mark (/) or

by any suitable word that denotes the slant mark. If an indicator is self-assigned, it must be included before, after, or both before and after, the call sign. No self-assigned indicator may conflict with any other indicator specified by the FCC Rules or with any prefix assigned to another country.

(d) When transmitting in conjunction with an event of special significance, a station may substitute for its assigned call sign a special event call sign as shown for that station for that period of time on the common data base coordinated, maintained and disseminated by the special event call sign data base coordinators. Additionally, the station must transmit its assigned call sign at least once per hour during such transmissions.

(e) When the operator license class held by the control operator exceeds that of the station license, an indicator consisting of the call sign assigned to the control operator's station must be included after the call sign.

(f) When the control operator is a person who is exercising the rights and privileges authorized by §97.9 (b) of this part, an indicator must be included after the call sign as follows:

(1) For a control operator who has requested a license modification from Novice Class to Technician Class: KT;

(2) For a control operator who has requested a license modification from Novice or Technician to General Class: AG;

(3) For a control operator who has requested a license modification from Novice, Technician, General, or Advanced Class to Amateur Ex-

tra Class: AE.

(g) When the station is transmitting under the authority of §97.107 of this part, an indicator consisting of the appropriate letter-numeral designating the station location must be included before the call sign that was issued to the station by the country granting the license. For an amateur service license granted by the Government of Canada, however, the indicator must be included after the call sign. At least once during each intercommunication, the identification announcement must include the geographical location as nearly as possible by city and state, commonwealth or possession.

[54 FR 25857, June 20, 1989, as amended at 54 FR 39535, Sept. 27, 1989; 55 FR 30457, July 26, 1990; 56 FR 28,

Jan. 2, 1991; 62 FR 17567, Apr. 10, 1997; 63 FR 68980, Dec. 14, 1998; 64 FR 51471, Sept. 23, 1999; 66 FR 20752,

Apr. 25, 2001; 75 FR 78171, Dec. 15, 2010]

A repeater trustee is responsible for the proper operation of their assigned repeaters. A repeater trustee is also responsible for:

(a) Ensuring that the club station license is operated in the club's best interests

(b) Following all FCC rules

(c) Designating control operators

(d) Determining who can use the club license

Thank you for your courtesy in all repeater operations!

FORT WAYNE RADIO CLUB MEETING MINUTES

11 October 2024

The October meeting of the Ft. Wayne Radio Club was held on October 11th, 2024. It occurred at the Good Shepherd United Methodist Church starting at 6:31 pm. It was hosted by club President Adam Warrix, KD9NRT; there were about 23 attendees.

Adam led everyone in the Pledge of Allegiance and invited all present to introduce themselves with their name and call-sign.

Before the business meeting Adam introduced Dr. Jordan Marshall, NM9L, a professor of biology at PFW who presented a rather interesting description of Wild Life Telemetry techniques that are employed to determine the movements of small animals. The techniques are similar to Fox Hunting and utilize low cost equipment generally operating in the 150MHz range. Jordan and his compatriots have been published in QST and On-The-Air analyzing the effectiveness of low cost antennas, (tape measure, etc.) compared to commercially available antennas. They have also explored the employment of SDR techniques and hardware to visualize received signals (typically 20 millisecond pulses at 300 nanowatts) transmitted from subject animals displaying the received

signal on waterfall displays.

A very interesting presentation well received.

Bob Streeter, W8ST, provided the Treasurer's report dated 10 October, 2024 as follow:

Checking account balance is \$15,194.65 with a check for \$7,707.75 outstanding.

Savings account balance is \$10,504.33.

Vanguard Cash Reserves Fund balance is \$8,112.34.

Year-to-Date Operating Income is \$14,245.87

Year-to-Date Operating Expense is \$10,539.26.

Club Operating net gain / (loss) YTD = \$3,706.61

Current Club Account Liquid Assets, Year to Date = \$33,811.32

The estimated non-related interest/dividend yearly income now stands at \$988.00

The club income from the W9GT estate was \$2,507.25.

The club has 141 members for 2024.

The club has 3 members paid for 2025.

Al Burke reported that the roof of our building at Robison Park received a soluble rubber water proof coating last weekend thanks to the help of Kevin Emenhiser, N9KE, Clark Derbyshire, KG9FM and Steve Nardin, W9SAN. Hopefully we are protected from potential roof water leaks for the next four or five

years.

Al also reported that Clark Derbyshire inspected the wiring between the AEP energy meter and our service panel to see if any incoming power was diverted to other (unknown) loads, and not channeled through the service panel. Nothing was found. So the discrepancies between the energy consumption reported by AEP's meter and our instrumentation remain unexplained. The investigation continues.

The Board is recommending that the club make a donation of \$500.00 to the Red Cross Hurricane Relief fund in light of the two storms that recently plowed through the south-east. After some discussion amongst the membership it was decided that the donation be made to Samaritan's Purse which is currently focusing efforts for the victims of Hurricanes Helene and Milton. That recommendation was unanimously endorsed by all present at the meeting and the Treasurer will take action on the initiative.

Adam noted that the club had sold its two FT-1000 transceivers typically used at Field Day and other operating events, and the Board is recommending we purchase at least one new or used Icom IC-7300 as a replacement which will modernize our operating equipment. We are expecting that an IC-7300 can be had for \$1,000 to \$1,100.00 in today's market, perhaps less, if we were to run

into a vendor's special promotion. So the proposal was made to authorize the Board to spend up to \$1,100.00 to acquire an IC-7300. It was seconded and put to a vote by the club members attending and the proposal was approved unanimously.

Steve Nardin noted that Tim Kearny of the Boy Scouts is suggesting that the Boy Scouts upcoming Jamboree On The Air (JOTA) that the club was looking at supporting might take place at the Scout offices of Jefferson Blvd. The club has supported activities from that site in the past but it suffers a high noise level due to the presence of high voltage transmission lines passing near the property. If the club supports the JOTA it needs a few more volunteers than have already volunteered to help (Steve Nardin, Jim Pliett, Al Burke and Terry Bowman). Steve Nardin will water-fall out a request for help.

Nominations for the offices of President, Vice President, Treasurer, Secretary, Communications Manager, Station Trustee and Newsletter Editor, and four Director positions were opened. At present the slate of those willing to run looks like the following:

President	Adam Warrix
Vice President	Meghan Warrix
Treasurer	Bob Streeter
Secretary	Al Burke
Communications Manager	Charles Ward
Station Trustee	Carole Burke
Newsletter Editor	Josh Long

Directors:

Steve Nardin

Terry Bowman

Jim Stephens

Larry Temenoff

Willi Tucker-Hall

Carole Burke

The meeting concluded around 7:25 pm.

Respectfully submitted,

Al Burke, WB9SSE

Secretary, FWRC



ACARTS General Meeting
American Red Cross building
1212 E. California Rd., Fort Wayne, IN

Tuesday, October 15, 2024
7:03pm – 8:27pm
Meeting also streamed online via MS Teams

Attendance:

President: Dan Dahms (N9WNH)
Online: Vice President: Chris McCullough (W9TSB)
Secretary: Stuart Hall (KD9LFW)
Online: Treasurer: Kevin Hecksher (W9KMH)
Silent Key: Station Manager: James (Jim) Sampiere (KD9NPL)
Fundraising Manager (Hamfest Manager): Fred Gengnagel (KC9EZP)
Online: Board Member: Howard Pletcher (N9ADS)
Absent: Board Member: Steve Shannon (K9SKS)
Board Member: James (Jim) Bassett (W9YME)
Attendance: 15 (12 in person, 3 online via MS Teams)

President Dan Dahms (N9WNH) opened the meeting, having everyone introduce themselves.

Dan noted that Jim Sampiere (KD9NPL) passed away from cancer last week. Jim's service to this club as Station Manager was noted.

Dan noted that he obtained Jim's copy of the WANE-TV key to access the 146.880MHz repeater shack and so now has both keys. Jim also has 4-5 boxes of club equipment stored at his place. It is expected that equipment will be sold once retrieved.

Secretary Stuart Hall (KD9LFW) reviewed the minutes of the September 17 General Meeting. Motion to accept minutes made by Fred Gengnagel (KC9EZP). Seconded by Jackson Wingeier (W2TAZ). Passed by unanimous vote.

Hamfest

Fred Gengnagel (KC9EZP) noted he is still looking for people to help at Hamfest, asking them to let him know availability.

Dan Dahms (N9WNH) noted there was a request to change the name of Youth Forums to Youth Activities. This will be done to the extent it can be for this year and completely next year.

Dan Dahms (N9WNH) noted that the forums held on the second floor are difficult for new visitors to find. Getting rid of the Red Room will save \$400. The White Room will be kept to facilitate VEC testing Saturday morning and forums after that. There is more room for more forums if needed. Dan noted that there are changes being implemented to automate aspects of the Hamfest such as Conventionforce for serving vendors. Dan stressed the need for increased marketing of vendors for next year's Hamfest. Fred noted that the costs of running the 2023 Hamfest was about \$20,000. Dan encouraged people to step up and help out.

Chris McCullough (W9TSB) noted that many of the vendors go on a tour of hamfests through the year and changing the date of the Hamfest may allow more vendors to attend.

**Presentation: Jackson (W2TAZ) jack.wingeier@gmail.com
"Operating FLDIGI and FLAMP"**

Jackson gave a thorough introduction to the use of the FLDigi software suite for digital modes including Fldigi, Flrig, Flmsg, and Flamp. He shared his use of the programs in his work with the Indiana Digital Traffic Net.

Jackson noted the Indiana Digital Traffic Net meets weekdays at 9am EDT on 7080kHz. The net starts with using MSFK-32 but will switch to other digital modes as needed. After the net is close many of the stations remain on the air for questions and practice in using digital modes.

Jackson repeatedly encouraged people to contact him with questions, providing his email address as: jack@storagebay.com

Jackson also noted that the full PowerPoint file of this presentation will be available at: <https://tekdmn.me/fldigi-flamp> though noted the file is 150MB. He also hopes to post a video of this presentation and will give this presentation as a forum at the Hamfest.

The recording of the meeting was stopped at this time.

Stuart Hall (KD9LFW) presented the financial report as relayed from the Treasurer Kevin Hecksher (W9KMH). (Exact numbers are available to all members upon request to the Treasurer and on Ham Club Online.)

Motion to adjourn at 9:16pm made by Jackson E Wingeier (W2TAZ). Seconded by Stuart Hall (KD9LFW) Passed by a voice vote.

Next meeting(s):

Board Meeting: Tuesday, November 12, 7pm, online via Microsoft Teams

General Meeting: Tuesday, November 19, 7pm, American Red Cross 1212 E. California Rd., Fort Wayne, IN. Also online via Microsoft Teams. Recordings of meeting video will be posted on Ham Club Online, ACARTS YouTube channel, and the ACARTS Facebook page.



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**PLEASE PROGRAM ALL YOUR
RADIOS TO TRANSMIT A 141.3
HZ TONE ON THE INPUT
FREQUENCY (146.280) FOR THE
ACARTS 146.880 (-) REPEATER
IN CASE OF LIMITED FUTURE
NEED.**

ACARTS Board Meeting (online via Microsoft Teams)

Tuesday, October 8, 2024
7:05pm – 8:37pm

Attendance (8):

President: Dan Dahms (N9WNH)

Vice President: Chris McCullough (W9TSB)

Secretary: Stuart Hall (KD9LFW)

Treasurer: Kevin Hecksher (W9KMH)

Absent: Station Manager: James (Jim) Sampiere (KD9NPL)

Fundraising Manager (Hamfest Manager): Fred Gengnagel (KC9EZP)

Board Member: Howard Pletcher (N9ADS)

Absent: Board Member: Steve Shannon (K9SKS)

Board Member: James (Jim) Bassett (W9YME)

Korry DuMont (KD9ZDW)

Recording of this meeting was not available.

Secretary Stuart Hall (KD9LFW)

Stuart Hall (KD9LFW) reviewed the minutes of the September 10, 2024 Board Meeting.

Motion to approve the minutes made by Jim Bassett (W9YME). Seconded by Fred Gengnagel (KC9EZP). Passed by unanimous vote.

Club Logo & Apparel

Jim Bassett (W9YME) noted that the printer has a sample of two logos. Jim will pick up the sample to examine it and will bring it in for examination at the next General meeting. Dan Dahms (N9WNH) noted that the setup fees for the logos is \$25 for each logo and that the club should cover those costs. Dan noted that the club should stick with one logo for promotion of the club though the other logo can be held in reserve. Dan noted that individuals purchasing apparel themselves will have to pay tax but if apparel is ordered through the club, there will be no sales tax. Discussion ensued on how complicated it would be to have the club purchase the apparel. For now, members will order the apparel on their own.

ACARTS VHF Simplex Contest

Dan Dahms (N9WNH) noted that Kevin Hecksher (W9KMH) is working on the winner's certificate and it may be awarded during the Hamfest.

Dan Dahms (N9WNH) noted that there are 3-4 people besides Kevin Hecksher (W9KMH) wanting to help with the I.T. Dan noted to Korry DuMont (KD9ZDW) that Kevin might need help during the Hamfest on vendor check-in though recognized that Korry is already committed to help out in other areas at the Hamfest.

Red Cross

Jennifer Sexton connected with Dan Dahms (N9WNH). Tomorrow at 4pm there with the Red Cross is a 30-minute online meeting providing information on volunteer opportunities. It may not include much amateur radio. The link is on the calendar on HCO.

By-Laws & Constitution

Dan Dahms (N9WNH) noted that he has it narrowed down to selecting one of two attorneys to review the Constitution and By-laws for compliance with the application as a 501(c)(3) organization.

Dan Dahms (N9WNH) noted that he unofficially assigned Kevin Hecksher (W9KMH) as I.T. Manager until the January elections. Dan surveyed the meeting if anyone had any concerns about that and none was noted.

Dan Dahms (N9WNH) asked Fred Gengnagel (KC9EZP) if he has had a chance to look at the ConferenceForce table layout. Fred has not had a chance to yet.

Community Manager is still needed to be nominated. Stuart Hall (KD9LFW) noted he is willing to come alongside the Manager and, if the Board suspends that position, will still fill some of the responsibilities.

Dan Dahms (N9WNH) noted that there will likely be a number of open positions for the club at the upcoming elections. Dan questioned whether anyone is open to be a member of the Nomination Committee. Korry DuMont (KD9ZDW) was volunteered by Dan to be a member and will be assisted by Dan.

Dan Dahms (N9WNH) noted at the next General Meeting October 15 the presentation will be on FLDigi

Fred Gengnagel (KC9EZP) noted that the next Hamfest Committee meeting is set for October 21 at 8pm.

Stuart Hall (KD9LFW) noted that he has met with Howard Pletcher (N9ADS) about Table Manager and loaded the old database onto his computer. Stuart also talked with Kevin Hecksher (W9KMH) about the new ConferenceForce website and tried that out. Dan Dahms (N9WNH) noted that ConferenceForce is up and functioning for vendors to reserve tables. Stuart noted that he will be at the Hamfest the full weekend and when he isn't busy with helping the Table Manager, he is available to help in other areas.

Jim Bassett (W9YME) noted that he has looked at the printer's website and they offer online ordering but only for a couple of weeks. Dan Dahms (N9WNH) asked him to inquire whether they would extend online sales for them.

Dan Dahms (N9WNH) noted that Jim Sampiere's (KD9NPL) health has diminished which has limited his ability to help with ACARTS. There is club equipment at Jim's house that may need to be retrieved.

Hamfest

Fred Gengnagel (KC9EZP) is still working at gathering volunteers, noting in particular help with vendor check-in. Howard Pletcher (N9ADS) confirmed the closing dates for reserving tables. Fred asked for help in finding volunteers. Dan Dahms (N9WNH) noted that non-ACARTS members who volunteer for the Hamfest will receive a free one-year membership to ACARTS. Dan also noted anyone who passes their licensure test at the Hamfest will receive a one-year ACARTS membership.

Dan noted that Kevin Hecksher (W9KMH) needs to talk with Jim Bassett (W9YME) about sales at the ACARTS table and Jim noted they have been in conversation. Kevin confirmed that he will have printed forms for membership at the ACARTS table as well as the ability to signup online.

Kevin noted concern about increasing advertising to drawn in vendors. Kevin brought up reaching out to local vendors in person. Howard Pletcher (N9ADS) noted that at this time last year they had sold 155 tables and this year they have sold 140 tables.

Stuart Hall (KD9LFW) noted he will reach out to Tekventure about their desire to have a table. Kevin suggested that if Tekventure is a 501(c)(3) organization, they can be offered one free table as the other Ham clubs have been offered.

Fred noted that October 25 is the cutoff date for volunteers in order to get the mailing out to the volunteers by November 2.

Motion: To adjourn the meeting at 8:37pm. Made by Howard Pletcher (N9ADS). Seconded by Fred Gengnagel (KC9EZP). Passed by unanimous voice vote.

Upcoming Meetings:

General Meeting: Tuesday, October 15, 7pm, American Red Cross 1212 E. California Rd., Fort Wayne, IN. Also online via Microsoft Teams. Recordings of meeting video will be posted on Ham Club Online, ACARTS YouTube channel, and the ACARTS Facebook page.

Hamfest Committee Meeting: Monday, October 21, 8pm, online

2024 OPERATING EVENTS

NOV

2-3

ARRL

SWEEPSTAKES, CW

NOV

9-10

SKCC WEEKEND

SPRINTATHON

NOV

16-18

ARRL SWEEPSTAKES,
SSB

NOV

16-17

ARRL EME

CONTEST

NOV

23-24

CQ WW DX

CONTEST, CW

This information comes from the WA7BNM Contest Calendar at contestcalendar.com and is gratefully acknowledged. It is deemed accurate as of the time of publication.

Area Nets (updated as of 11/1/24)

Daily		Tuesday			
8:00 AM	3.535	Daily (QIN) Indiana Section CW net	7:30 PM	147.150+	21 Repeater Group Net (97.4 PL)
8:30 AM	3.912	Daily Indiana Traffic Net	8:00 PM	50.580 USB	FWRC 6-Meter SSB Net
6:00 PM	3.910	Daily Indiana Traffic Net	9:00 PM	146.940-	Allen Co. ARES Training Net (141.3 PL)
6:30 PM	146.880-	IMO (alternate is 146.940)	Wednesday		
7:00 PM	147.015+	Tri State Two Meter Net	--	—	—
8:00 PM	3.535	Daily (QIN) Indiana Section CW net	8:00 PM	145.270-	Whitley Co. ARES (141.3 PL)
Week-days			8:00 PM	50.580 FM	FWRC 6-Meter FM Net
9:00 AM	3.820	Little Red Barn Net (NewsLine on Friday after net)	—	—	—
Sunday		Thursday			
8:00 PM	444.550+	Whitley Co. ARC Sunday Night Net (141.3 PL)	8:00 PM	D-STAR	Indiana D-STAR net (Note 3)
8:30 PM	146.910-	"No-Name" Net also on EchoLink Node number 519521	8:00 PM	50.580	AM 6-Meter AM Net
9:00 PM	145.53 simplex	Northeast Indiana Packet Net 1200 baud (Note 2)	8:30 PM	145.510 simplex	Allen County ARES Digital Operations Team Training Net (Note 4)
Monday		Saturday			
8:00 PM	224.780-	Fort Wayne 224 Net	8:00 PM	146.685-	Huntington ARES(141.3 PL)

1. All times local time. **Any changes or corrections should be submitted to the newsletter editor at drjoshlong (at) gmail.com.**

2. NEIPN is direct accessible via any BPQ Chat Node (or through Node hopping etc.) via other packet frequencies in this area and other areas through other nodes (it is locally direct accessible on 145.53 in NC & NE Indiana/NW Ohio and SE Michigan using KA9LCF-11, KC9VYU-11, N9LCF-11, N9PXO-11, K9BIF-11) Most BPQ Nodes use an SSID of -11.

3. Reflector REF024B.

4. Net starts using BPSK-31 and switches to BPSK-250 after roll call to pass traffic etc. NBEMS suite of software (FLDIGI, FLMSG, and FLAMP) is preferred.

5. Indiana HF Traffic Nets Web Site: <http://www.inarrl.org/index.php/public-service/indiana-nts>

Area Repeaters (updated as of 11/1/24)

Frequency	Offset	Tone/Notes	Callsign	Frequency	Offset	Tone/Notes	Callsign
				442.6375	+5 MHz	MDR CC1	N9MTF
145.330	-0.6 MHz	141.3	W9FEZ	442.99375	+5 MHz	D-Star W9TE-B	W9TE
146.880	-0.6 MHz	--	W9INX	443.100	+5 MHz	DMR CC1	K9MMQ
147.255	+0.6 MHz	--	W9INX	443.275	+5 MHz	P25 NAC # 293	K9MMQ
146.760	-0.6 MHz	141.3	W9TE	444.250	+5 MHz	141.3	W9AVW
146.910	-0.6 MHz	--	W9TE	444.800	+5 MHz	--	W9FEZ
146.940	-0.6 MHz	141.3	W9TE	444.8750	+5 MHz	141.3	W9TE
224.780	-1.6 MHz	--	W9FEZ				

FWRC Membership Application

Name: _____ Call Sign: _____
 License Class: _____
 Street address: _____ City: _____
 State: _____ ZIP: _____ Phone #: (_____) _____
 * Email address: _____
 * (@arrl.net domain is unreliable. Please use an alternate email address if you have one).
 ARRL Member? _____ (ARRL membership helps the club maintain ARRL affiliation)
 May we list your name, call & email address in our membership roster & on our club web site? Yes or No

Fort Wayne Radio Club dues:

Regular membership	\$20.00 / year
Family membership ¹	\$25.00 / year
Student membership ²	\$5.00 / year
Associate membership ³	\$15.00 / year

(Memberships for July-December are ½ the stated amounts)

Please attach a check to this form (paying by check is strongly encouraged) made out to:
 Fort Wayne Radio Club (check number _____) and bring to a club meeting or mail to:
 Fort Wayne Radio Club
 P.O. Box 15127
 Fort Wayne, IN 46885-5127

- 1: Please list all names and calls on an attached sheet.
- 2: K-12 or full time student.
- 3: Unlicensed member.

ACARTS Membership Application

Name: _____ Call Sign: _____
 License Class: _____
 Street address: _____ City: _____
 State: _____ ZIP: _____ Phone #: (_____) _____
 Email address: _____ ARRL Member? _____
 (ARRL membership helps the club maintain ARRL affiliation)
 May we list your name, call & email address in our membership roster & on our club web site? Yes or No

ACARTS dues:

Regular membership	\$12.00 / year
Additional family members ¹	\$6.00 / year
Student membership ²	\$6.00 / year
Associate membership ³	\$6.00 / year

(New regular memberships are \$1.00/month)

Please attach a check to this form (paying by check is strongly encouraged) made out to:
 Allen County Amateur Radio Technical Society (check number _____) and bring to a club meeting or mail to:
 A.C.A.R.T.S.
 P.O. Box 10342
 Fort Wayne, IN

- 1: Please list all names and calls on an attached sheet.
- 2: K-12 or full time student.
- 3: Unlicensed member.